

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Ashok K. Santra et al.	)	)	
		)	)	
		)	)	Art Unit: unknown
		)	)	
Serial No.:	unknown	)	)	
		)	)	
Filed:	concurrently herewith	)	)	Examiner: Unknown
		)	)	
For:	ZEOLITE COMPOSITIONS HAVING	)	)	
	ENHANCED COMPRESSIVE STRENGTH)	)	)	

**INFORMATION DISCLOSURE STATEMENT**

ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

**U. S. PATENTS**

U.S. Patent No. 3,694,152 issued September 26, 1972 to Riccardo Sersale et al.

U.S. Patent No. 4,435,216 issued March 6, 1984 to Manfred Diehl et al.

U.S. Patent No. 4,482,379 issued November 13, 1984 to Benton L. Dibrell et al.

U.S. Patent No. 4,888,120 issued December 19, 1989 to Heinz Mueller et al.

U.S. Patent No. 5,383,967 issued January 24, 1995 to Raymond S. Chase.

U.S. Patent No. 5,435,846 issued July 25, 1995 to Hidenobu Tatematsu et al.

U.S. Patent No. 5,494,513 issued February 27, 1996 to Yan Fu et al.

U.S. Patent No. 5,529,624 issued June 25, 1996 to Norbert Riegler.

U.S. Patent No. 6,145,591 issued November 14, 2000 to Virgilio G. Boncan et al.

U.S. Patent No. 6,170,575 B1 issued January 9, 2001 to Baireddy R. Reddy et al.

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U.S. Patent No. 6,245,142 B1 issued June 12, 2001 to Baireddy R. Reddy et al.

U.S. Patent No. 6,379,456 B1 issued April 30, 2002 to James F. Heathman et al.

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U.S. Patent No. 5,964,692 issued October 12, 1999 to Michael Blezard et al.

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U.S. Patent No. 5,301,752 issued April 12, 1994 to Kenneth M. Cowan et al.

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U.S. Patent No. 5,501,276 issued March 26, 1996 to Jim Weaver et al.

U.S. Patent No. 5,464,060 issued November 7, 1995 to Arthur H. Hale et al.

#### **U.S. PATENT APPLICATION PUBLICATIONS**

U.S. Patent Application Publication No. US 2001/0014651 A1 published August 16,  
2001 to Baireddy R. Reddy et al.

## **FOREIGN PATENTS**

London Patent No. 1,469,954 published April 14, 1977.

## **OTHER MATERIAL**

SPE 20624 entitled “Acidization of Analcime-Cementing Sandstone, Gulf of Mexico” by D.R. Underdown et al., dated 1990.

SPE 39595 entitled “Designing a Remedial Acid Treatment for Gulf of Mexico Deepwater Turbidite Sands Containing Zeolite Cement” by B.A. Rogers et al., dated 1998.

Paper entitled “Tectonics, fluid migration, and fluid pressure in a deformed forearc basin, Cook Inlet, Alaska”, by R.L. Bruhn et al., pages 550-563, dated 2000.

Paper entitled “Hydraulic Conductivity Measurements On Discrete Samples Collected From Leg 141, Site 863”, by S.D. Lewis et al., pages 401-405, dated 1995.

Paper entitled “Alteration of Clay Minerals And Zeolites In Hydrothermal Brines” by Sridhar Komarneni et al., pages 383-391, dated 1983.

Paper entitled “A Non-Conventional Way of Developing Cement Slurry for Geothermal Wells”, by V. Barlet-Gouedard et al., pages 85-91, dated 2001.

Paper entitled “Portland –Zeolite-Cement For Minimizing Alkali-Aggregate Expansion”, by R. Sersale, Vol. 17, pages 404-410, dated 1987.

Paper entitled “Zeolite Crystallization in Portland Cement Concrete” by S.A. Marfill et al., pages 1283-1288, dated 1993.

Paper entitled “A Study on the hydration rate of natural zeolite blended cement pastes”, by C.S. Poon et al., pages 427-432, dated 1999.

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Paper entitled “Extreme vertices design of concrete with combined mineral admixtures”, by Jian-Tong Ding et al., pages 957-960, dated 1999.

Paper entitled “The Properties of Mortar Using Blends With Portland Cement Clinker, Zeolite Tuff and Gypsum”, by Ivan Janotka, pages 105-110, dated 1995.

Paper entitled “Study on the suppression effect of natural zeolite on expansion of concrete due to alkali-aggregate reaction”, by Feng Naiqian, pages 17-24, dated 1998.

Paper entitled “Comparative study of the initial surface absorption and chloride diffusion of high performance zeolite, silica fume and PFA concretes”, by Sammy Y.N. Chan et al, pages 293-300, dated 1999.

Paper entitled “A study on the hydration rate of natural zeolite blended cement pastes”, by C.S. Poon et al, pages 427-432, dated 1999.

Baroid Brochure entitled “AQUAGEL GOLD SEAL®” dated 2002.

Halliburton brochure entitled “CFR-2 Cement Friction Reducer” dated 1999.

Halliburton brochure entitled “CFR-3 Cement Friction Reducer” dated 1998.

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Halliburton brochure entitled "Halad®-413 Fluid-Loss Additive" dated 1999.

Halliburton brochure entitled "HR®-5 Cement Additive" dated 1998.

Halliburton brochure entitled "HR®-7 Cement Retarder" dated 1999.

Halliburton brochure entitled "MICROSAND Cement Additive" dated 1999.

Halliburton brochure entitled "SSA-1 Strength-Stabilizing Agent dated 1998.

Halliburton brochure entitled "SSA-2 Coarse Silica Flour" dated 1999.

Halliburton brochure entitled "Baroid BARAZAN® PLUS" dated 2002.

Halliburton brochure entitled "Baroid EZ-MUD® Shale Stabilizer" dated 2002.

Halliburton brochure entitled "Baroid INVERMUL® Emulsifier" dated 2002.

Halliburton brochure entitled "Baroid EZ MUL® Emulsifier" dated 2002.

Halliburton brochure entitled "Baroid EZ MUL® NTE Emulsifier" dated 2002.

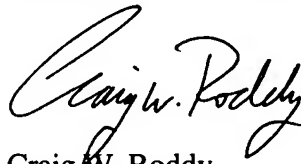
Halliburton brochure entitled "Baroid GELTONE® II Viscosifier" dated 2002.

Halliburton brochure entitled "Baroid GELTONE® V Viscosifier" dated 2002.

Halliburton brochure entitled "Baroid DURATONE® HT Filtration Control Agent" dated 2002.

Copies of the aforementioned references and Form PTO-1449 are submitted herewith.

Respectfully submitted,

A handwritten signature in black ink, reading "Craig W. Roddy". The signature is fluid and cursive, with the first name "Craig" being the most prominent.

Craig W. Roddy  
Registration No. 36,256  
Halliburton Energy Services  
P. O. Box 1431  
Duncan, OK 73536-0440  
580-251-3012

<b>FORM PTO-1449 (Modified)</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. 2000-IP-002115U1P3P2	SERIAL NO. unknown
	APPLICANT Ashok K. Santra et al.	
	FILING DATE concurrently herewith	GROUP unknown

*U.S. PATENT DOCUMENTS*

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	3,694,152	09/26/72	Sersale et al.	423	329	
	AB	4,435,216	03/06/84	Diehl et al.	106	97	
	AC	4,482,379	11/13/84	Dibrell et al.	106	76	
	AD	4,888,120	12/19/89	Mueller et al.	252	8.551	
	AE	5,383,967	01/24/95	Chase	106	737	
	AF	5,435,846	07/25/95	Tatematsu et al.	106	813	
	AG	5,494,513	02/27/96	Fu et al.	106	672	
	AH	5,529,624	06/25/96	Riegler	106	675	
	AI	6,145,591	11/14/00	Boncan et al.	166	291	
	AJ	6,170,575 B1	01/09/01	Reddy et al.	166	293	
	AK	6,171,386 B1	01/09/01	Sabins	106	724	
	AL	6,245,142 B1	06/12/01	Reddy et al.	106	724	

*FOREIGN PATENT DOCUMENTS*

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AM	1,469,954	04/14/77	London	C08L	95/00	X	
	AN							
	AO							
	AP							
	AQ							

*OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)*

	AR		SPE 20624 entitled "Acidization of Analcime-Cementing Sandstone, Gulf Of Mexico", by D.R. Underdown et al., dated 1990.					
	AS		SPE 39595 entitled "Designing a Remedial Acid Treatment for Gulf of Mexico Deepwater Turbidite Sands Containing Zeolite Cement", by B.A. Rogers et al., dated 1998.					
	AT		Paper entitled "Tectonis, fluid migration, and fluid pressure in a Deformed forearc basin, Cook Inlet, Alaska", by R.L. Bruhn et al., Pages 550-563, dated 2000.					

EXAMINER

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	6,379,456 B1	04/30/02	Heathman et al.	106	724	
	AB	6,494,951 B1	12/17/02	Reddy et al.	106	705	
	AC	4,141,843	02/27/79	Watson	252	8.55 R	
	AD	4,217,229	08/12/80	Watson	252	8.55 R	
	AE	4,444,668	04/24/84	Walker et al.	252	8.55 R	
	AF	4,530,402	07/23/85	Smith et al.	166	291	
	AG	4,536,297	08/20/85	Loftin et al.	252	8.5 C	
	AH	4,717,488	01/05/88	Seheult et al.	252	8.551	
	AI	5,716,910	02/10/98	Totten et al.	507	102	
	AJ	5,759,964	06/02/87	Shuchart et al.	507	209	
	AK	5,789,352	08/04/98	Carpenter et al.	507	209	
	AL						

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EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	5,851,960	12/22/98	Totten et al.	507	118	
	AB	5,866,517	02/02/99	Carpenter et al.	507	226	
	AC	5,990,052	11/23/99	Harris	507	214	
	AD	6,063,738	05/16/00	Chatterji et al.	507	269	
	AE	6,070,664	06/06/00	Dalrymple et al.	166	281	
	AF	6,213,213 B1	04/10/01	van Batenburg	166	300	
	AG	6,283,213 B1	09/04/01	Chan	166	291	
	AH	6,488,091 B1	12/03/02	Weaver et al.	166	300	
	AI	6,555,505 B1	04/29/03	King et al.	507	202	
	AJ	6,566,310 B2	05/20/03	Chan	507	211	
	AK	6,478,869 B2	11/12/00	Reddy et al.	106	724	
	AL	4,557,763	12/10/85	George et al.	106	90	

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	AB	5,340,860	08/23/94	Brake et al.	524	166	
	AC	5,680,900	10/28/97	Nguyen et al.	166	295	
	AD	6,405,801 B1	06/18/02	Vijn et al.	166	293	
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	AF	3,359,225	12/19/67	Weisend	260	29.6	
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	AH	4,555,269	11/26/85	Rao et al.	106	90	
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EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	5,123,487	06/23/92	Harris et al.	166	277	
	AB	5,125,455	06/30/92	Harris et al.	166	292	
	AC	5,127,473	07/07/92	Harris et al.	166	277	
	AD	5,238,064	08/24/93	Dahl et al.	166	293	
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	AF	4,515,216	05/07/85	Childs et al.	166	293	
	AG	5,252,554	10/12/93	Mueller et al.	507	138	
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	AJ	6,167,967 B1	01/02/02	Sweatman	166	281	
	AK	6,258,757 B1	07/10/01	Sweatman et al.	507	219	
	AL	6,508,306 B1	01/21/03	Reddy et al.	166	295	

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	AE	6,610,139 B2	08/26/03	Reddy et al.	106	724	
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	AG	5,711,383	01/27/98	Terry et al.	175	72	
	AH	5,964,692	10/12/99	Bleazard et al.	516	59	
	AI	5,314,022	05/24/94	Cowan et al.	166	293	
	AJ	5,301,752	04/12/94	Cowan et al.	166	292	
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							Yes	No
	AM							
	AN							
	AO							
	AP							
	AQ							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Paper entitled "Study on the suppression effect of natural zeolite on Expansion of concrete due to alkali-aggregate reaction", by Feng Naigian et al., pages 17-24, dated 1998.
	AS	Paper entitled "Comparative study of the initial surface absorption and Chloride diffusion of high performance zeolite, silica fume and PFA Concrete", by Sammy Y.N. Chan et al., pages 293-300, dated 1999.
	AT	Paper entitled "A study on the hydration rate of natural zeolite Blended cement pastes", by C.S. Poon et al., pages 427-432, dated 1999.

EXAMINER

DATE CONSIDERED

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<b>FORM PTO-1449 (Modified)</b>  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	ATTY. DOCKET NO. 2000-IP-002115U1P3P2	SERIAL NO. unknown
	APPLICANT Ashok K. Santra et al.	
	FILING DATE concurrently herewith	GROUP unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	5,464,060	11/07/95	Hale et al.	166	293	
	AB	US 2001/0014651 A1	08/16/01	Reddy et al.	502	408	
	AC						
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## FOREIGN PATENT DOCUMENTS

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							Yes	No
	AM							
	AN							
	AO							
	AP							
	AQ							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Baroid Brochure entitled "AQUAGEL GOLD SEAL®" dated 2002.
		Halliburton brochure entitled "CFR-2 Cement Friction Reducer" dated 1999.
	AS	Halliburton brochure entitled "CFR-3 Cement Friction Reducer" dated 1998.
		Halliburton brochure entitled "D-Air 2 Anti-Foam Agent" dated 1999.
	AT	Halliburton brochure entitled "Halad®-344 Fluid-Loss Additive dated 1998.
		Halliburton brochure entitled "Halad®-413 Fluid-Loss Additive" dated 1999.

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	AP							
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR		Halliburton brochure entitled "HR@-5 Cement Additive" dated 1998.
			Halliburton brochure entitled "HR@-7 Cement Retarder" dated 1999.
	AS		Halliburton brochure entitled "MICROSAND Cement Additive" dated 1999.
			Halliburton brochure entitled "SSA-1 Strength-Stabilizing Agent dated 1998.
	AT		Halliburton brochure entitled "SSA-2 Coarse Silica Flour" dated 1999.

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR		Halliburton brochure entitled "Baroid BARAZAN® PLUS" dated 2002.
			Halliburton brochure entitled "Baroid EZ-MUD® Shale Stabilizer" dated 2002.
	AS		Halliburton brochure entitled "Baroid INVERMUL® Emulsifier" dated 2002.
			Halliburton brochure entitled "Baroid EZ MUL® Emulsifier" dated 2002.
	AT		Halliburton brochure entitled "Baroid EZ MUL® NTE Emulsifier" dated 2002.
			Halliburton brochure entitled "Baroid GELTONE® II Viscosifer" dated 2002.

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	AO							
	AP							
	AQ							

*OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)*

	AR		Halliburton brochure entitled "Baroid GELTONE® V Viscosifier" dated 2002.
	AS		Halliburton brochure entitled "Baroid DURATONE® HT Filtration Control Agent" dated 2002.
	AT		

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